SU 1723125

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
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Bis-N-aziridinealkanes as mutagens

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DT Patent
LA Russian

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI SU 1723125	A1	19920330	SU 1989-4767001	19891208 <--
PRAI SU 1989-4767001		19891208		

AB Bis-N-aziridinealkanes (I; n = 3-8, 12) are mutagens.

IT Alkanes, compounds
RL: BIOL (Biological study)
(bisaziridine derivs., as mutagens)
IT Mutagens
(bisaziridinealkanes)
IT 18924-57-7 25781-25-3 40717-38-2 56522-41-9 134753-77-8 134753-78-9 134753-79-0
RL: BIOL (Biological study)
(as mutagen)

DIALOG(R)File 351:Derwent WPI

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Alpha, omega-bis-N-aziridino-alkane(s) used as chemical mutagens – are prepd. by reacting alpha, omega-diaminoalkane with dihalo-ethane in dichloroethane or benzene in presence of alkali

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Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
SU 1723125	A1	19920330	SU 4767001	A	19891208	199311	B

Priority Applications (No Type Date): SU 4767001 A 19891208
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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Abstract (Basic): SU 1723125 A

Alpha, omega -bis-N- aziridinoalkanes of formula (I), where n = 3-8 and 12 is obtd. by

reacting alpha, omega-diaminoalkane with 1,2-dihaloethane in 1,2-dichloroethane or benzene, in the presence of 50% alkali, at 60-70 deg.C.

USE/ADVANTAGE - In genetics: (I) find novel use as chemical mutagens. They are safer and more active than the parent aziridine of formula (II), and are used as mutagens for bacterial cells of Salmonella typhimurium TA 100 with the genotype hisG46uvrBrfa pKM 101. The cpd. boils at much higher temp. of 190-220 deg.C, compared with (II) which boils at 50 deg.C. Bul.12/30.3.92